

# Class of 2012 senior survey

*Seniors reflect on MIT  
years and future plans*

**By Anne Cai**  
NEWS EDITOR

As the Class of 2012 finished their last semester as undergraduates, MIT administered to all seniors the online Senior Survey, asking them to reflect on their experience at MIT and their plans for the future. MIT conducts a senior survey once every two years. Of the 1046 seniors this year, 72.8 percent responded to the survey (“answered at least one question”).

According to the survey, 38 percent expressed being “very satisfied” with their overall undergraduate education, with 49.7 percent “generally satisfied”, 2.6 percent “generally dissatisfied”, and only 0.1 percent “very dissatisfied”.

Student perceptions of faculty availability, instruction, and support opinions were mostly overwhelmingly favorable, with 56.5 percent being “very satisfied” and an additional 35.5 percent “generally satisfied” with “opportunities to participate in research with a faculty member.” In fact, 87.8 percent of respondents reported that they participated in research with a faculty member at some point while at MIT.

Senior statistics, Page 8



ELIJAH MENA—THE TECH

## MIT COMMENCEMENT HIGHLIGHTS

Sal Khan’s commencement speech will be online on the *Tech’s* website. See pages 6 and 7 for more Commencement photos!

**Salman Khan ‘98 delivered the 2012 Commencement address on June 8.** The founder of the widely-used educational site Khan Academy told the graduating seniors to listen to others, to appreciate every opportunity, and to be responsible with the status and power of money.

## Google walkway vs. rooftop garden



DAVID DA HE—THE TECH

Google’s plan to connect two of their buildings with a walkway will destroy part of the rooftop garden, which is atop a parking garage at 4 Cambridge Center. The Cambridge Redevelopment Authority will be holding a meeting at 2 p.m. today in the Richards Room at Residence Inn (6 Cambridge Center) to discuss the project.

# Selecting Reif for president

*Students, faculty, Corp. all support internal choice*

**By John A. Hawkinson**  
STAFF REPORTER

How hard was it to select L. Rafael Reif as MIT’s 17th president? By all accounts, everyone wanted Reif.

On May 16, the day Reif was announced president, *The Tech* conducted a swath of interviews with people in the selection process. This article summarizes them and recounts the events of the search.

Susan J. Hockfield announced her resignation on Thursday, Feb. 17, 2012. By March 8, MIT Corporation member James A. Champy ’63 had been selected to chair the search committee, and the committee was assembled. By April 28, the committee had decided on Reif,

and the Corporation’s executive committee heard their recommendation on May 3. Finally, the full corporation voted on the morning of May 16, and the selection was announced to the world.

Leo Rafael Reif has been at MIT since 1980, and has served as a lab director, an associate department head and department head for Electrical Engineering and Computer Science, and currently serves as MIT’s provost, the president’s second-in-command.

From early on, there was a strong desire for an internal candidate, Corporation officials said, swinging the pendulum back — Hockfield had come from Yale and Charles M. Vest, MIT’s 15th president, had

come from the University of Michigan. Before that, Paul E. Gray ’54 had been an internal candidate; Gray went on to serve as Chair of the MIT Corporation and is now an emeritus professor of electrical engineering here.

**Faculty and student input**

“I think the hardest thing, particularly as an Executive Committee member, is that I’ve known Rafael and worked fairly close with him over the last seven years,” said Corporation member Barrie R. Zesiger. (Zesiger and her husband Al ’51 are both corporation members, and they gave MIT a large gift that led

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## IN SHORT

The deadline for applying for Summer 2012 UROP supervisor/sponsored research funding is Thursday, June 21.

**MBTA fare increases** will take effect on July 1.

**Silver Line SL1 service from Logan Airport** is free until September 2012.

**MIT President-elect L. Rafael Reif** will officially take office on July 2.

Send news information and tips to [news@tech.mit.edu](mailto:news@tech.mit.edu).

## Drive-by shooting in Inman Square leaves one teen dead

Charlene “Chay” Holmes, 16, was shot and killed in a drive-by shooting outside 34-36 Willow St. near Inman Square on Sunday night, roughly one mile from MIT. Her companion, Thanillee Cotto-Felix, 17, was also shot and remains in critical condition.

The two girls were walking down Willow Street when they stopped by a house to speak to someone on the

porch. Cambridge police were called around 8:15 p.m., and the two were brought to the hospital, where Holmes passed away.

There have been no arrests.

In a statement to *The Boston Globe*, spokeswoman for Middlesex District Attorney Gerard T. Leone Jr.’s office, Jessica Venezia Pastore said

Drive-by, Page 8

## GLOBAL WARMING AT THE TOP OF THE WORLD

Photo exhibit of the effect on Mt. Everest is at MIT. **ARTS p. 5**

## A TALE OF TWO HOMES

Why leaving one to go back to the other can still be rough. **CAMPUS LIFE, p. 12**

**HOUSE’S LAWSUIT CONTINUES**

David House proposes a settlement to the government. **NEWS, p. 9**



## BRING THE HEAT AND SOME THUNDER

There’s a storm brewing as the 2012 NBA Finals grow closer. **SPORTS, p. 12**

## THE ART OF THE CIVIL WAR

Why you’re happy some people picked sketchbooks over guns. **ARTS, p. 5**

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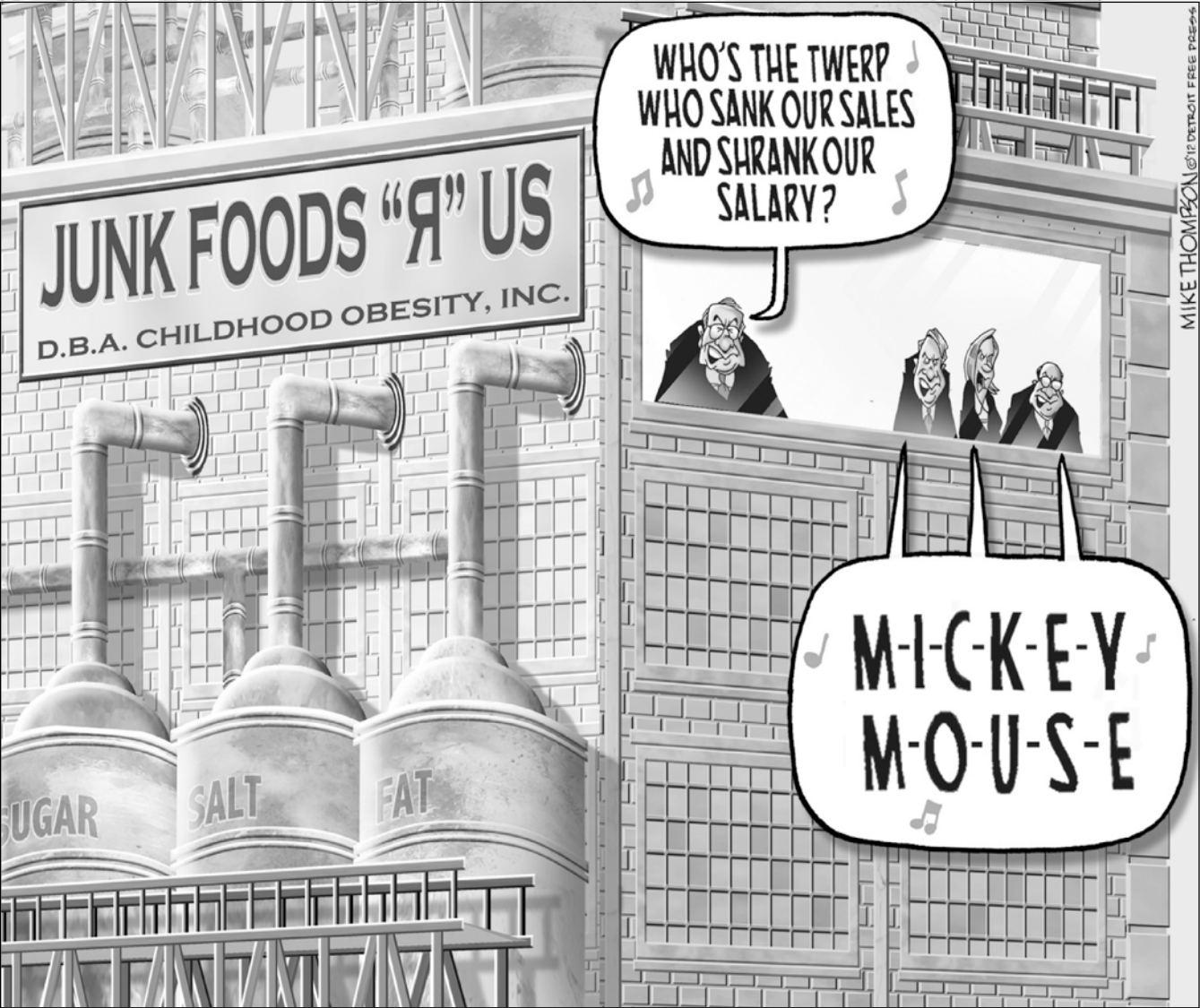
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The table “Selected other university president’s 2010 compensation” that accompanied last Friday’s article about top salaries at MIT incorrectly listed the compensations for President Hockfield. Hockfield’s 2010 paid and total compensations were \$832,629 and \$1,000,969, not \$1,260,427 and \$1,316,463, respectively.

Because of an editing error, an article about faculty involvement in the MIT 2030 process transposed the first initial and middle names of MIT's President-elect. He is L. Rafael Reif, not Rafael L. Reif.

Also on Friday, an article about the Residential Life Area Director (RLAD) developments misquoted UA president Jonté D. Craighead as saying, “it doesn’t make sense for even the UA on DormCon to say ‘this is the boiler plate for all solutions on campus.’” Craighead actually said, “it doesn’t make sense for the UA on DormCon to say ‘this is the boilerplate solution for all students on campus.’”

Craighead's quote referencing the anonymous email leak —

“But he probably improved some other night weeks in the future...At the end of the day, things are moving in the right direction” — was ambiguous. “Things moving in the right direction” followed comments on the successful meetings with administrators; thus, it referenced how the UA and DormCon were able to overcome the leak in discussions, not that the leak was the proper thing to do.

An article about the 2012 Commencement incorrectly stated that 80.5 percent of the senior class donated to the Senior Gift. The actual percentage was 80.4. The same article also stated that Lois Champy MAR '71 pledged \$30,000 to the Institute because the seniors met the 80 percent goal. In addition, Champy donated \$20,000 to the sailing fleet renewal for the occasion of the class meeting the 75 percent goal.

An article published on May 17 about the fire extinguisher incident in Baker incorrectly stated that the fire alarms were on Sunday morning. They occurred on Saturday morning.

The same article quoted Elizabeth M. Albany '12 saying that students "took over the Student Center with blankets and pillows." She said they "took over the student center like a bunch of pajama-wearing hobos."

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EXHIBIT REVIEW

# Everest, everlasting?

Photography exhibition at the MIT Museum highlights climate change in the Himalayas

By **Roberto Perez-Franco**  
STAFF WRITER

A visit to the art galleries on the second floor of the MIT Museum yields a pleasant surprise. “Rivers of Ice: Vanishing Glaciers of the Greater Himalaya”, featuring the photography of filmmaker-mountaineer David Breashears, successfully integrates art and science to paint a fascinating portrait of climate change in the Greater Himalaya region.

Much in the spirit of National Geographic, “Rivers of Ice” puts the glaciers in the context of the people who populate the vast Himalayas region and the importance of the water supply from the glaciers; it also explains the meaning of the retreats and advances of glacier, giving us a timeline of climate change and human impact.

The photography portion of the exhibi-

tion highlights not only Breashears’ work but also that of his adventurous twentieth-century predecessors Vittorio Sella, George Mallory and Major E.O. Wheeler. Together, these images capture the majesty and mysteriousness of the mountains.

**Most memorable is the 360° panorama view of the Kharta glacier in the Mount Everest region. To stand in the middle of such a setup is almost dizzying.**

Vittorio Sella’s 1909 photograph, *The Duke of Altruzzi and guides climbing through the Chogolisa Icefall*, shows icicles dripping from towering overhangs, like the teeth of icy dragons guarding caves full of treasure; an unknown photographer’s 1935 image, *Near the Upper Kharta Glacier, Everest region*, showcases a vast, mystical expanse of pristine snow and skies.

Other images emphasize the power-

lessness of a single human amidst sublime nature. In a 2007 photograph, *Main Rongbuk glacier ice pinnacles with climber*, Jimmy Chin captures a figure scaling curiously-shaped ice forms, spread out on the ice like a lizard on the wall; in turn, the ice forms themselves are dwarfed by the surrounding mountains. Most memorable is the 360° panorama view of the Kharta glacier in the Mount Everest region. To stand in the middle of such a setup is almost dizzying.

Amidst all these photographs and timelines of climate change are various mountaineering artifacts, reminders of the obstacles that mountaineers have tackled throughout history. There are climbing boots and rope, and for the photographer-mountaineers, cameras. Included in the display is a 15-pound Eastman 2-D view camera from 1921, similar to the one that Mallory used.

Near the end of the exhibition are

**Rivers of Ice:  
Vanishing Glaciers of  
the Greater Himalaya**

**David Breashears  
MIT Museum**

**April 13, 2012 – March 2013**

printed the words of Humphry Davy: “Nothing is more fatal to the progress of the human mind than to presume that our views of science are ultimate, that our triumphs are complete, that there are no mysteries in nature and that there are no new worlds to conquer.” It is something to keep in mind as climate change — and often our determination to ignore it — continues to loom above us.

BOOK REVIEW

# The art of war, in charcoal and watercolor

*Civil War Sketchbook* brings us a splendid collection of original sketches from the front lines of the battlefield

By **Roberto Perez-Franco**  
STAFF WRITER

Two days after the charter incorporating MIT was signed in April 1861, Confederate forces attacked a military installation in South Carolina. It was the first in a series of battles that would last four bloody years and decide the fate of a nation. Shiloh, Antietam, Vicksburg, Bull Run and Gettysburg are now the stuff of history, names that to this day evoke deep wounds — physical, psychological, moral — in the very fabric of America, many of which are still open. But there was a time when citizens on all sides of the war followed these names for breaking news, which often took the form of written and graphical reports in printed newspapers.

**The Specials managed to find, in that darkest hour, some beauty and truth to be rescued.**

Today, it is almost impossible to imagine the difficulties that the journalists and graphical reporters back then had to overcome to bring the citizenry fresh news from the frontlines of the Civil War. There was a time when the shock and awe of war was not broadcast in real time to the world, and when being embedded with the troops meant actually standing in the line of fire. Capturing battle in an image required more than the click of a button, and sending that image back to the editors took more than an attachment in an email.

As a tribute to the courageous and talented artists that risked their lives to capture these images in charcoal and watercolor, Harry Katz and Vincent Virga assembled the *Civil War Sketch Book: Drawings from the Battlefield*. This collection of

over 250 drawings and illustrations, many of them recently uncovered or published for the first time, touches upon all the major battles of what is arguably the most important event in American history in the 19th century. The book features the works of renowned artists such as the Waud brothers, Thomas Nast and the master himself, Winslow Homer.

These sketch artists were known as Specials “because their drawings were sent to magazines and newspapers by special delivery.” They “exposed themselves to danger constantly” and “lived among the soldiers and suffered the same privations.” By putting themselves “in the heat of the action,” they produced sketches that “often provided the most accurate reporting of what had transpired” in the field. The engravings produced from the sketches of the Specials, while often polemical and censored or modified for quasi-propagandistic purposes, “helped shape our understanding of the war.”

Two things in particular impressed me while reading this book. The first is the Specials’ ability to capture images so full of action through such rudimentary means; how they achieved it is beyond my understanding. Photographic memory, patient recollection and a pinch of imagination must all have played a role in capturing a scene glimpsed just for a few seconds, or — as in Lumley’s sketch of the assassination of Col. Ellsworth (p.11) — only fractions of a second. The other is that there is something universal in these images of war, despite being quintessentially 19th-century American. It is impossible to look at Lumley’s sketch of a falling soldier (p.79) without feeling in it the same pathos of violent death frozen in time that made famous Robert Capa’s photo of a falling soldier, now an icon of the Spanish Civil War; or to compare Alfred Waud’s sketch of Lincoln resting (p.ix) and the one by Edwin Forbes



During the Civil War, newspapers printed engravings such as Winslow Homer’s *A War for the Union 1862 – Cavalry Charge*.

of a small Black boy sleeping (p.94) and not feel a sense of shared humanity.

Although war is endless horror, the Specials managed to find in that darkest hour some beauty and truth to be rescued. Now, their priceless work is in turn on display for a new century in this exquisite sketchbook, bursting with vividly reproduced images and insightful historical commentary. It is because of books like this one — clearly a work of love — that I am confident the printed tome will not be replaced by the digital file any time soon. For the soul of an art and history lover, there is no substitute for flipping through the pages, caressing the images with the fingertips, taking a closer look, and feeling through this contact that history is in your hands.

★★★★★

**Civil War Sketch  
Book: Drawings from  
the Battlefield**

**By Harry L. Katz and  
Vincent Virga**

**W.W. Norton  
May 2012**

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# COMMENCEMENT



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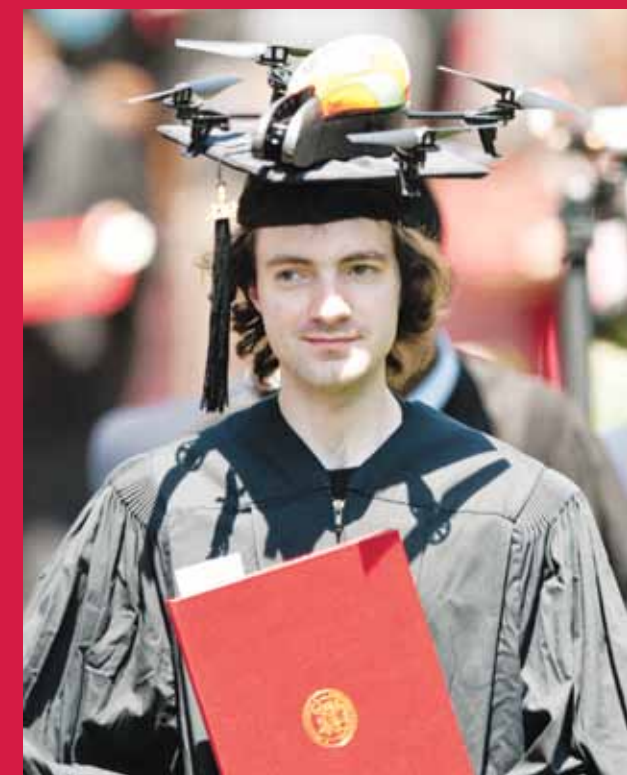
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## Dressed to Impress!

The class of 2012 goes out in a style that only MIT could fully appreciate



### ABOVE:

The graduating seniors decorated their mortar boards and gowns with many amusing objects.

### TO THE LEFT:

1. Graduates suffer in the hot sun. The ceremonies were held under clear skies and narrowly missed rain in the afternoon.
2. Faculty members take their seats along the podium.
3. The graduates line up inside the Johnson Athletic Center.
4. Graduates sit outside the Z Center prior to lining up.
5. Flowers are sold outside of Lobby 7 to friends and family of the graduates.
6. R. Gregory Turner '74, president of the MIT Alumni Association, leads the procession and holds the ceremonial mace.
7. Faculty members, adorned with red hats and gowns, assemble under a tent in front of Kresge.
8. Spectators cool off from the hot day by grabbing free bottled water at booths located at both sides of Killian Court.
9. A six-piece brass ensemble plays as the graduates march to Killian Court.
10. Family members look on as the graduates pass by the Z Center.
11. Jessica A. Artiles '12 and fellow graduates march along Amherst Street.
12. Alumni are applauded and take a seat along Killian Court. Red coats are given to alumni who graduated 50 or more years ago.

PHOTOGRAPHY BY WILLIAM YEE AND ELIJAH MENA—THE TECH



# Survey reveals senior statistics

## Many going into engineering, CS, consulting, finance

Drive-by, from Page 1

that police could not answer questions about a potential motive or about the search for the killer.

“We are encouraged by the leads we have, and we have every confidence we will solve this crime,” she said.

Authorities are currently investigating who was the original target of the gunfire.

Holmes’ funeral was held yesterday at the St. Mary of Annunciation church in Cambridge. Over 400 people attended, many of whom were Holmes’ neighbors and classmates at Cambridge Rindge and Latin High School.

Cotto-Felix, who was a senior at Rindge, attended her own graduation via a video feed on June 7.

The Wellington-Harrington Square neighborhood has had trouble with crime in the past. The police have responded to incidents in the area over 10 times within the past two years. Police presence has increased in the area since the shooting.

Community members are calling for action. Council members at Monday’s City Council meeting voted unanimously to include young people in the meeting with the police about the incident, if the meeting were to take place.

Police plan to hold to the meeting soon, now that the funeral has passed. Dan Rivello, a representative from the Cambridge Police Department, told the *Globe* that they wanted to give the family time to grieve.

—Jessica J. Pourian

Senior statistics, from Page 1

However, the main outlier regarding academic experience was about “academic advising before declaring a major,” where 32.2 percent were generally dissatisfied, 11.5 percent were very dissatisfied, 41.9 percent were generally satisfied, and only 14.5 percent were very satisfied.

74.6 percent of respondents agreed that they have found a balance between academics and extracurriculars.

On matters of campus services and facilities — such as athletic facilities, library resources, counseling and health services, housing, security, and laboratories — the Class of 2012 responded largely positively. But 50.1 percent were dissatisfied with the “administration’s responsiveness to student concerns,” and 63.9 percent were dissatisfied with MIT’s food services. Responses to extracurricular opportunities, intellectual excitement, social environment, and other aspects of campus life were also all generally positive — with the exception that 55.9 percent were “dissatisfied” or “very dissatisfied” with student government.

The senior survey results also indicated that students felt MIT helped develop skills like thinking critically, understanding and using quantitative reasoning, creating original ideas and solutions, and ability to learn on their own. On more qualitative skills, however, they rated development in writing, leadership skills, resolving interpersonal conflicts, developing self-esteem and self-confidence, and placing current problems in historical/cultural/philosophical perspectives much lower. Most noticeably, 48.5 percent of respondents reported that since entering MIT, they have undergone very little or no improvement in reading or speaking foreign languages, which can likely be attributed to MIT’s lack of a foreign language requirement.

Another 74.6 percent agreed that they have found a balance between academics and extracurriculars. 22.8 percent reported that during the fall term of senior year, they spent no time on physical fitness. Throughout their time as an undergraduate, 70.7 percent of respondents received some sort of financial aid from MIT.

Plans for the future

As of the time of the Senior Survey, 46.7 percent of seniors expected to remain in Massachusetts this fall, followed by 20 percent going to California and 7.8 percent going to New York. Of those who expected to be employed, engineering, com-

puter science/technology, consulting, and financial services encompassed the largest percentages, with 25.8 percent, 17.4 percent, 15.1 percent, and 10 percent respectively.

22.8 percent reported they spent no time on physical fitness in the fall term of senior year.

The MIT Global Education & Career Development (GECD) is conducting a separate survey that has now been open for three weeks. According to Associate Director of MIT Career services Deborah L. Liverman, the results as of last Wednesday (at which point 50 percent of seniors had responded) indicated that 52 percent of the Class of 2012 will be working, and 38 percent will be attending graduate school. Additionally, 4 percent are enrolling in another educational program (such as a second bachelors degree or a post-baccalaureate premedical program), 1 percent are on distinguished fellowships, and 4 percent reported “other,” which included traveling, postponing their employment search, or being otherwise undecided. Of the 52 percent going to work, 82 percent had accepted an offer at the time of their response. The GECD survey will remain open until the end of August.

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(Excerpts)

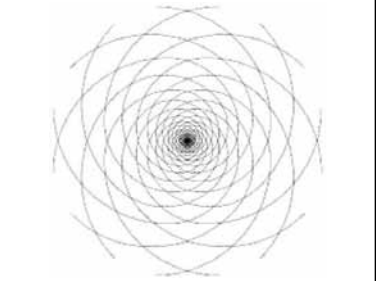
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A Mathematical Transformation of Variables  
Defining Space – Time and the Constant h  
Silicon Valley, California  
May, 2012

**Introduction**  
In this model, it is shown that continuous time t and a contiguous view of spatial frames are mathematically the same in the macroscopic sense. A suggested transformation of variables presents interesting differences in concept for small and large energies and spaces. Perceived time can be altered relative to Earth-bound clocks in regions of lower or higher gravitational force. A series of calculation-verifications proves the theory, derives the new Planck’s constant and newly defines quantum mechanics. Black holes and their mass-radius relationship are newly defined. The Schwarzschild radius is newly defined. Minimum and maximum energies are newly defined.

From wave mechanics, we have the Schrödinger equation<sup>1</sup>  
 $\frac{dy}{dt} = +/- 2\pi i/h \times E_{\psi}$  as a partial derivative and the related approximation  
 $\Delta x \Delta k \geq O(1)$ .  
This defines the uncertainty in measurements<sup>1</sup>  
 $\Delta x \Delta p \geq h/2\pi$ .  
Implying  $\Delta p = m \Delta x / \Delta t$  and using a transformation for  $\Delta t$ , then  
 $\Delta p = m \Delta x / \Delta(cB)$   
This leads to  
 $m (\Delta x)^2 \geq (h/2\pi J \cdot s) (\Delta cB) = (h/2\pi J) (cB) (\Delta cB)$   
Per unit mass, then  
 $(\Delta x)^2 \geq (h/2\pi)(\Delta cB)(cB)$  from transformation.  
For a single B (events-meter<sup>-1</sup>) the corresponding  $\Delta x = b$  meters and  $\Delta(cB) = 1/(cB)$   
Then  $b \geq (h\text{-bar})^{1/2}$ .  
Further defining b-minimum as the minimum  $\Delta x$  and using the positive root in this analysis, then **b(min) = 1.027E-17 meters.**  
Subject to the further justification below, we assert:  
 $E = F\text{-sub-B} \times b$   
Where  $F\text{-sub-B} = F\text{-sub-G}$  = the gravitational force at the spatial location of event B.  
And on the planet surface,  $F\text{-sub-B} = ma = m \times 9.8 \text{ meters-sec}^{-2}$ .  
Then  $E / m = a \times b = 9.8b \text{ meters} / (cB)^2$  or  $E / m = 9.8b / (c/b)^2$  and  
 $E / m = 9.8 / 9 (10^{-16}) b^3 \text{ J-kg}^{-1}$ ,  
Or we can write the expression:  
 $E / m / b^3 = 1.089E-16 \text{ J kg}^{-1}$  or  
**E-sub-B / m = 680 eV / kg for one cubic spatial boundary.**  
**b = E-sub-B / m x (a)^-1 = 1.089E-16 / 9.8 = 1.111E-17 meters.**  
**This should be the universal value of b and is independent of F-sub-G since the accelerations “g” cancel for any spatial position.**

**VI. Appendix D**  
**Planck’s Constant Redefined**  
Planck’s constant<sup>2</sup>  $h = 6.626068E-34 \text{ met}^2 \text{ kg sec}^{-1}$ :  
From the Schrödinger equation,  
 $h = 13.6eV / (1^2) / v = (13.6eV / (1^2) / c) \times 91.2nm$   
Then  $h = (E\text{-sub-B} / c) \times (91.2E-9 / 50)$   
Or  $h = (E\text{-sub-B} / c) \times 1.82E-9$   
And  $h = (E\text{-sub-B} / c) \times (b \times c / 1.82)$   
So  
 $h = E\text{-sub-B} \times b / 1.82$  or  
 $h = e^{(-3/5)} \times b \times E\text{-sub-B} = b E_B / e^{3/5}$   
where  
 $b = 1.111E-17 \text{ meters}$   
and



$E_B = E\text{-sub-B} = \text{Earth surface barrier energy} = 680eV/kg = 1.089E-16 \text{ J/kg}$   
And the calculated  $h = 2.718^{-3/5} \times 1.111E-17 \times 1.089E-16 = 6.6E-34 \text{ per event}$ .  
More precisely from our 3-decimal calculations and per appendices A through C,  
 $h \rightarrow h(1-\Delta h)$  where  $\Delta h = 0.08^{5/2}$  and  $h = 6.63E-34 \text{ per event}$  or we can write  
 $h = b E_B \kappa = b E_B (1 - \Delta h) / e^{3/5} = b E_B (Y' / p')$ .  
Units for transformed h:  
 $h \sim \text{met J Kg-1 b-3} \sim \text{met-2 J Kg-1} \sim \text{met-2 met2 sec-2 Kg Kg-1} \sim (\text{one B})^{-1} = \text{event-1}$ .

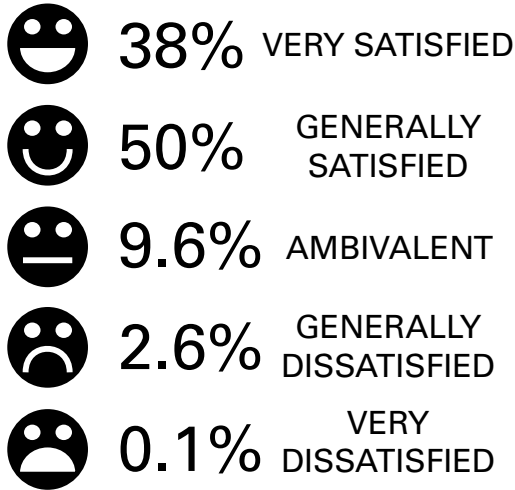
**VII. Appendix E**  
**The New Nature of Quantum Mechanics**  
We postulate that any allowed energy quanta has a wavelength  $\lambda = nb$  where n is an integer and  $b = 1.111... E-17 \text{ meters}$  per the main text.  
For example, the 13.6eV H ground state transition is  $\lambda = 91.2nm$   
And  $n = \lambda / b = 820882088$ .  
Similarly, the H state 1 to state 2 transition is  $\lambda = 121.6nm$   
And  $n = 109450945$ .  
An H state 3 to state 1 transition is  $\lambda = 486.1nm$  and  $n = 43753375$ .  
Then  $0 < \text{one energy-event} \leq c / b (= 2.700E25 \text{ J-event} = c^3 \text{ J-event})$   
and quantum energy  $= hc/\lambda$  is defined as an integral operation of  $1/b$ .  
**Then the base of all quantum mechanics is  $1/b = B$  where  $t = cB$**   
**and  $h = h(ac)$  and becomes a function of  $F_B = F_G$ .**  
It seems better to write the equivalent expressions:  
 $E = hv = hc/\lambda$  leading to  
 $E (J) = (b E_B \kappa) \text{ event}^{-1} \times c / (nb) \text{ energy-event}$  and  
 $E / E_B = (\kappa / n) c$  or  
 $n E / E_B = \kappa c$   
where  $1 \leq n \leq \kappa c$   
and this more clearly defines the universal nature of quantum mechanics.

Units for the ratio  $E / E_B = kg$  for one spatial boundary and the free-energy-state becomes  $E_B$  (per unit mass) instead of “zero.”

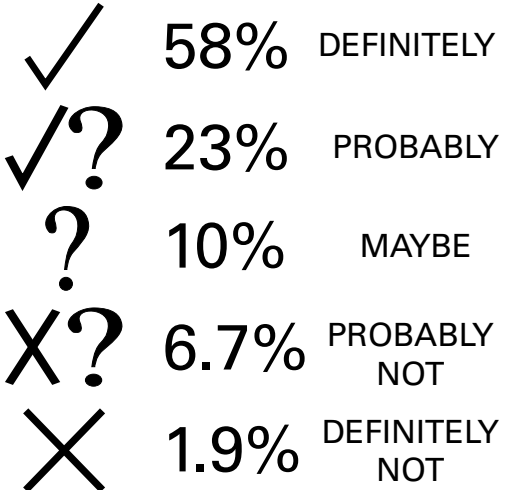


“The Earth-surface quantum energy sum could theoretically be altered so that little or no energy was lost through the spatial progression.”

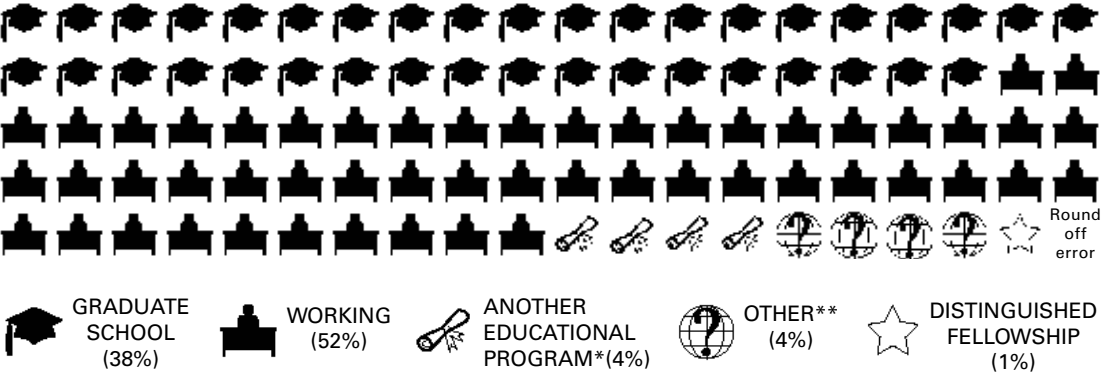
## HOW SATISFIED WERE YOU WITH YOUR MIT EDUCATION?



## WOULD YOU ENCOURAGE A HIGH SCHOOL SENIOR WHO RESEMBLES YOU WHEN YOU WERE IN HIGH SCHOOL TO ATTEND MIT?



## WHAT WILL OUR GRADUATES BE DOING?



\*SECOND BACHELORS DEGREE, POST BACCALAUREATE PREMEDICAL PROGRAM, ETC.  
\*\*TRAVELING, POSTPONING JOB SEARCH, AND UNDECIDED

AISLYN SCHALCK—THE TECH

### Solution to Sudoku

from page 10

8	3	6	9	1	4	5	2	7
2	9	7	5	3	8	1	6	4
1	4	5	2	7	6	9	3	8
6	5	3	8	9	1	7	4	2
7	8	1	4	5	2	6	9	3
4	2	9	7	6	3	8	1	5
9	6	8	3	2	5	4	7	1
3	7	4	1	8	9	2	5	6
5	1	2	6	4	7	3	8	9

### Solution to Techdoku

from page 10

2	1	6	3	5	4
4	3	2	5	1	6
1	6	5	2	4	3
5	4	3	6	2	1
6	5	4	1	3	2
3	2	1	4	6	5

### Solution to Crossword

from page 10

LAKES	MOTH	WIFI
OPERA	EPEE	ASOF
TREADWATER	LENS	
TOP DALI	MAKEDO	
ONSPEC	CHEST	
	ARKS	ASPHALT
NARC	YELL	ERROR
IVIED	NOV	NOTRE
POSSE	OPEC	USES
SWEETER	SHAG	
	TEXAS	UTHANT
DMITRI	WORE	DEE
RODE	STEPLADDER	
OVER	TIDE	MOODS
PEAS	SPED	SENSE

# ‘Best presidency in the world’

## Vest offers advice to president-elect L. Rafael Reif

Selecting Reif, from Page 1

to the construction of the Zesiger Sports and Fitness Center.)

Going into the search, Zesiger said she had no idea what the faculty thought of Reif. But it turns out they were “hugely” favorable to him. The faculty had “lots of meetings. Every department. Lots of groups on campus. So we really canvassed broadly. And it all came back the same. It was extraordinary. And it was so powerful. After a while, we all knew. We all knew. It was Rafael’s to lose when he came in to interview.”

Chair of the Faculty Samuel M. Allen PhD ’75 said he was “extremely impressed with how much faculty opinions were valued. Any fears I had about the Corporation being in charge of it were quickly allayed. The group of the faculty on the committee were superb.”

Allen went on to say that student opinions were valued as well, but that he expected that, because “I’ve heard in the past search it was extremely valuable.” So, interestingly enough, the faculty chair was confident students would have a say, and worried about the faculty’s clout.

Asked whether there was dissent in the search process, Allen said “None!”

About student input, Allen said “it seems like we had input from them right before we had the interviews.”

Corporation Secretary Kirk D. Kolenbrander said that the process was able to go so fast because “we had engaged in such a thorough understanding

of where the institution was and wanted to go in 2004,” referring to the search for Hockfield. Kolenbrander managed the search processes that chose both Hockfield and Reif. The people who managed those earlier searches, such as for Vest in 1990, were all gone by the time of the 2004 search.

Why the focus on an internal candidate? Kolenbrander said “every audience we spoke with, every time we assembled an individual or a group, we heard a yearning for someone who understood the institution. That wasn’t true in 2004. It may well not be true in 2019, in whatever the year will be. It was true in 2012.”

### Vest, Hockfield’s predecessor, offered this advice to Reif: “Be yourself.”

#### Vest offers advice

Vest, Hockfield’s predecessor, offered this advice to Reif: “Be yourself.” While he calls it “a little bit on the corny side,” Vest says: “if you just be yourself, this community knows they’re getting the real deal and they’ll rally behind you and help you out. And also, you know, the success anybody has in a university presidency lies in exactly what Rafael said today: be a great listener.”

Vest said, on the day of the Reif announcement, “I’m just delighted. It was a wonderful outcome, and everybody I’ve

talked to today from groundskeepers to faculty members as I’ve been wandering around, are just thrilled.”

Asked what he’d learned in the past seven years, as he has served as President of the National Academy of Engineering, Vest said: “The main thing I’ve learned is what I already knew. This is the Greatest Place on Earth. And all of us who have been here and are either temporarily or permanently elsewhere miss the energy and honesty and the openness and willingness to take on big challenges. This is the best presidency in the world because our faculty don’t have time for the silly kind of politics. They’re busy being the best in the world at whatever they are.”

#### Corp. Executive Committee structure

The MIT Corporation — the 72-member board of trustees — is led by its Executive Committee, which includes the MIT president, the corporation chairman, the treasurer, and nine other members. It meets ten times per year and pays close attention to the management of the Institute.

Today, the President of MIT leads the executive committee, but that might change.

According to Zesiger, who serves on it, there’s been a recent “discussion that it might be a good idea” to have the chairman of the Corporation run executive committee meetings.

That’s how it was prior to World War II, she said. “It’s some way of making sure that there are different points of view,” Zesiger said.

## House’s suit against US marches forward

Attorneys have agreed upon a schedule in *House v. Napolitano*, where David M. House is suing the federal government because they confiscated his laptop at a border crossing and held it for 49 days. The case is in Massachusetts federal district court.

House is a Boston area computer programmer who was employed by MIT at the time of the seizure, in November of 2010; he is the founder of the Bradley Manning Support Network.

Fact-based discovery should complete by March 2013, and expert witness discovery by June of 2013. Discovery is the process of obtaining evidence from the opposing party prior to trial.

Also, as required by the court’s local rules, House proposed a settlement to the government earlier this month. House’s attorney, Catherine Crump of the American Civil Liberties Union (ACLU), was uncertain whether she was permitted to disclose the settlement offer publicly.

The government will present its response to the settlement offer at a scheduling conference on Monday, June 18, 2012. Judge Denise J. Casper will also approve or alter the proposed schedule at that conference, and issue a formal scheduling order.

House filed his suit in May of 2011, but it stalled until April of 2012 as the court determined to dismiss the case at the government’s request. Casper decided against dismissal in March of 2012.

One current case that may affect House is *United States v. Cotterman*, which is being re-argued on appeal before the Ninth Circuit Court of Appeals next week Tuesday, June 19. This appeal is an *en banc* hearing, meaning it is before the chief justice

and ten other judges, rather than a three-judge panel, as it was before.

In *Cotterman*, Howard W. Cotterman’s laptop was searched, child pornography was found in unallocated disk space, and he was arrested. (Unallocated disk space is free space not assigned to any file; it may include previously deleted files or deliberately hidden information.)

An Arizona court found in favor of Cotterman and suppressed the evidence, but the Ninth Circuit reversed that decision. Now the Ninth could reverse itself again.

The two judges who voted against him are not on the new randomly-selected panel, but the one judge who voted for him is.

Since the last decision in *Cotterman*, the Supreme Court unanimously decided *United States v. Jones*, ruling that warrantless GPS tracking violated the 4th amendment. Five of the court’s judges explained that the practical protections of privacy in the pre-computer times were privacy’s greatest protections.

According to court filings, attorneys arguing for Cotterman intend the same argument — that searching the hundreds of gigabytes that a laptop holds would never have been practical in the pre-laptop age, and thus they should not be permitted in the modern era either.

Cotterman’s side will be argued by William J. Kirchner, Cotterman’s attorney, as well as Christopher T. Handman, who represents The Constitution Project, a civil liberties advocacy group. Kirchner, who has never argued an *en banc* re-hearing before, said Handman was terrific and that “he’s a really great lawyer who is going to add a lot of perspective.”

— John A. Hawkinson

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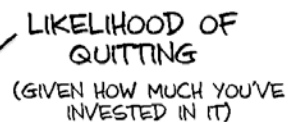
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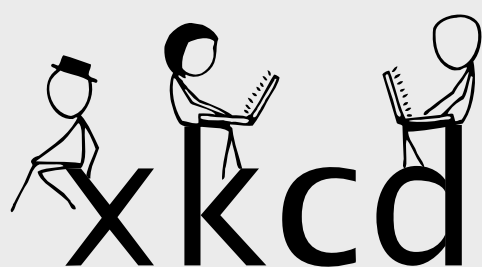
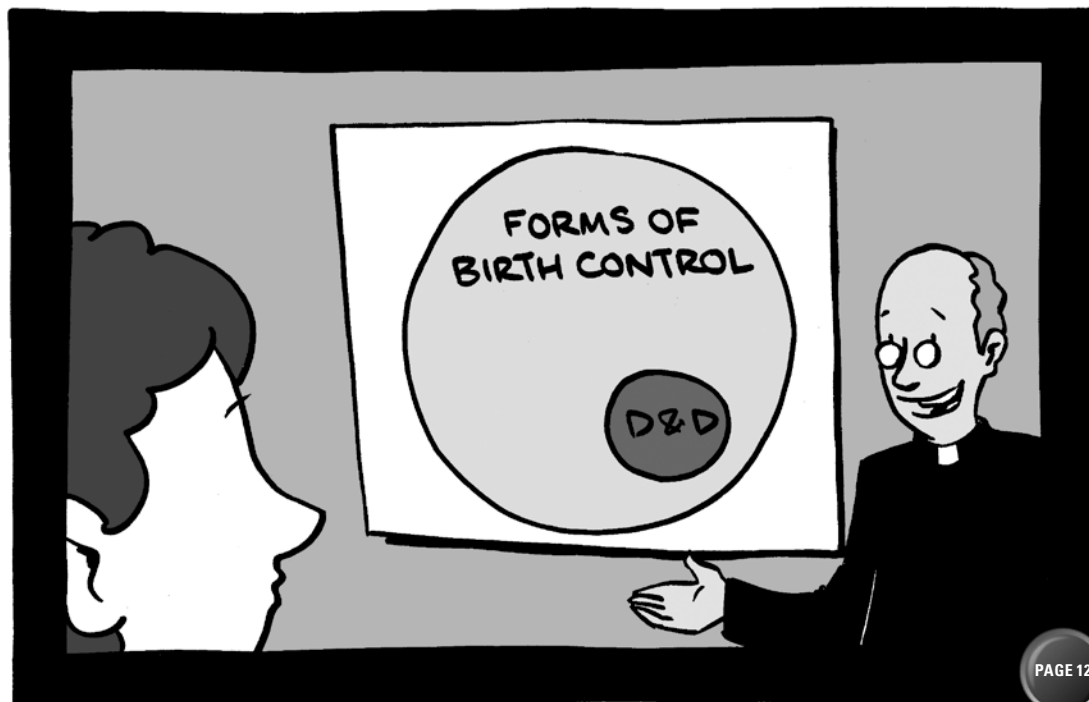




62 Pundit page  
66 Hint  
67 Female antelope

Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1–6. Follow the mathematical operations for each box.

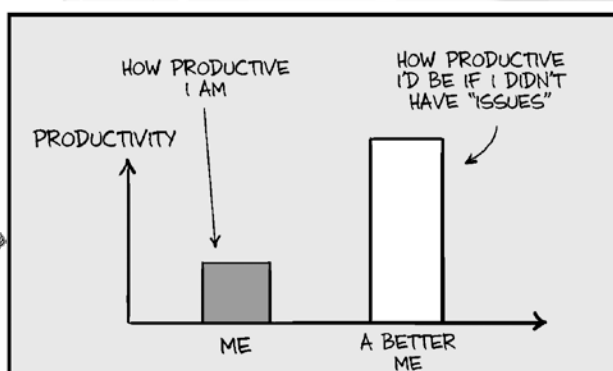




**A WEBCOMIC OF ROMANCE,  
SARCASM, MATH, AND LANGUAGE**  
by Randall Munroe

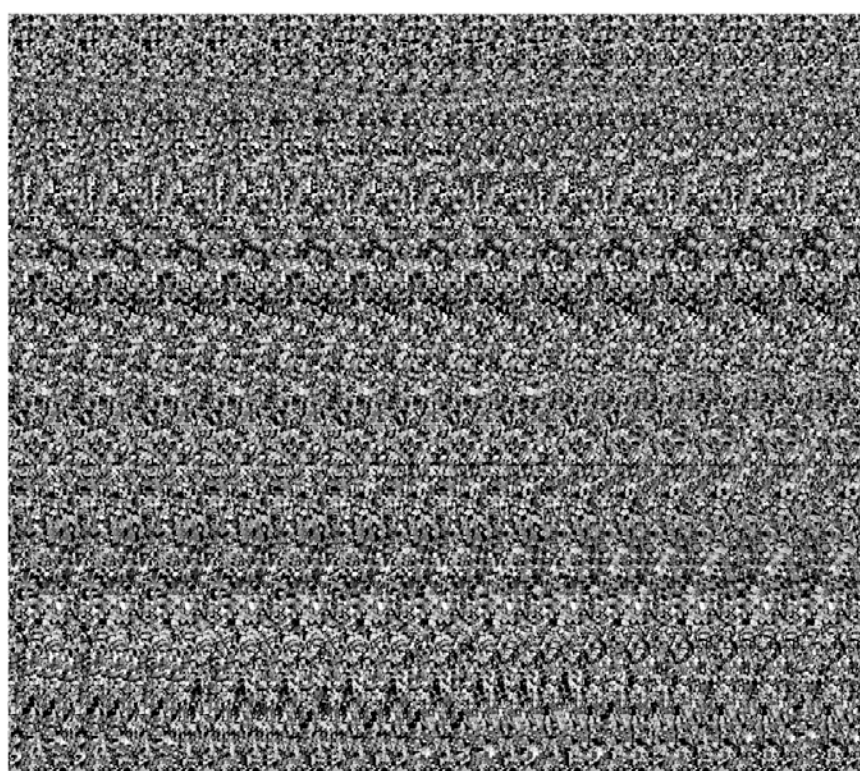


by Jorge Cham



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# GRAD SCHOOL STEREOGRAM



FOLLOW THESE INSTRUCTIONS TO UNLOCK A HIDDEN MESSAGE!

- ① STARE AT YOUR COMPUTER FOR UNHEALTHY AMOUNTS OF TIME (IT'S CALLED "RESEARCH")
- ② ALLOW YOUR EYES TO GLAZE OVER AND YOUR MIND TO START QUESTIONING REALITY
- ③ START SEEING THINGS THAT ARE NOT REALLY THERE!

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## [1067] Pressures

SO... WHAT'VE YOU BEEN UP TO?  
| HANDLING PATENT APPLICATIONS.  
YEAH, BUT... BESIDES THAT. |  
| THAT'S ABOUT IT.  
YOU'RE NOT, LIKE, THINKING  
ABOUT ANY COOL STUFF? |  
| JUST CURIOUS.



FOR THE LAST HUNDRED YEARS,  
SWISS PATENT CLERKS HAVE BEEN  
UNDER SOME WEIRD PRESSURES.

Everyone's caught by surprise when a theory of quantum gravity is developed by a sound technician wearing patent leather shoes while editing Clerks II.

JORGE CHAM © 2012



*Both teams bounce back from difficult seasons; who will take the championship?*

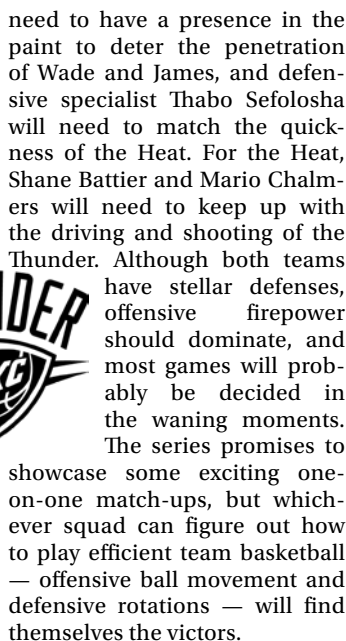
The 2012 NBA Finals features the two valiant number two seeds: the Miami Heat from the East and the Oklahoma City Thunder from the West. Both teams have had to battle back in the previous rounds in order to arrive here at this point. The Heat trailed 2-1 in the Eastern Conference Semifinals against the Indiana Pacers before winning three in a row to wrap up the series. They were also down 3-2 in the Eastern Conference Finals against the Boston Celtics before winning two straight to thrust themselves into their second straight NBA Finals.



**Whichever squad can figure out how to play efficient basketball will find themselves the victors.**

The Miami Heat, after adding LeBron James to the roster in 2010, heightened their cham-

These two teams split their two regular season games, each winning at home. During these games, the notable stars (James, Wade, and Bosh of the Heat and Durant, Harden, and Westbrook of the Thunder) were the prolific scorers. However, success in this series will probably rely heavily on overall team defense. Serge Ibaka of the Thunder will



*The journey to my hometown reveals happiness and excitement in unexpected ways*

If there's one thing everyone seems to get excited about at the end of the semester, it's about going away. Although no one likes moving, whether to go home or travel to some foreign land for an internship, the vast majority of people are ecstatic about getting out and away.

Last summer I was at home, working for my mom's new company. While I love my mom and I loved the experience of working in that environment, I discovered that working from home, despite being a career luxury that many people aspire to have, is not something that I enjoy.

deal with my siblings. I love my high school friends, but I didn't get to have the fun experience of meeting new people everywhere I went like I did at MIT. Seeing

**Being at MIT was like wearing a shirt that your parents bought you when you were 12 and said that you would grow into it.**

all the Facebook posts from my friends out doing productive things with their UROPs or internships and hanging around in Boston didn't help either.

I felt like I had been sent back to high school.

Being at MIT was like wearing a shirt that your parents bought you when you were 12 and said that you would grow into it. It was a little roomy at first, kind of intimidating, and not that likable to begin with (especially sitting through 8.01), but eventually you grow to like it. Before you know, it fits like a glove.

As I sat on the plane going back to Arizona, I was both happy that I was getting a break and secretly loathing that I was going to be stuck in my boring hometown for a week and a half.

But then something

I was sitting around playing video games one day. I hadn't planned much to do, and I just placed myself in the shoes of my family and friends; how did they feel that I was coming back? The

**As I continued to have great times hanging out with my old friends and family, I realized I actually didn't want to leave.**

truth is, they all love seeing me, even if I'm not the most excited to see them at that moment. Especially from my little sister, you could see the excitement and joy

in her eyes that her brother was back at home. That kind of emotion from someone close to me is something I couldn't help but reciprocate. As I continued to have great times hanging out with my old friends and family, I realized that I actually didn't want to leave.

I chose to go to MIT because the people and places made me feel at home. Even though I'm only halfway done here, I came to realize that I had forgotten that my parents' house is also my home. The short vacation I took, even though I was apprehensive about it at first, was one of the best ones I've ever had.

Going back home is hard and leaving home is hard, but I'm glad I did. If I hadn't left my first home two years ago, I would never have discovered what I now know to be my second home.

## Graduation to do's:

- ☒ **Cap and gown**
- ☒ **Cardboard boxes**
- ☒ **Packing tape**

☐ **Health insurance?**

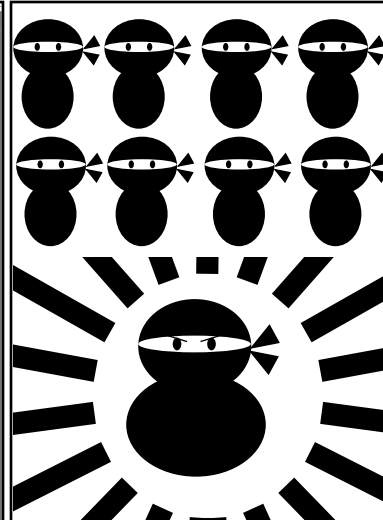
If you're a member of the class of 2012, your enrollment in the Student Extended MIT Health Plan ends on **August 31, 2012.**

To continue with a Blue Cross Blue Shield plan or a Massachusetts Health Connector plan, you **MUST** apply by **July 15, 2012**.



# MIT Health Plan

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**SMBC**  
from page 11

